

# Overview of the ATC activities

**2015 ISOE Asian ALARA Symposium  
9-11 Sept., Tokyo, Japan**

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Nuclear Safety Research Association  
Japan**

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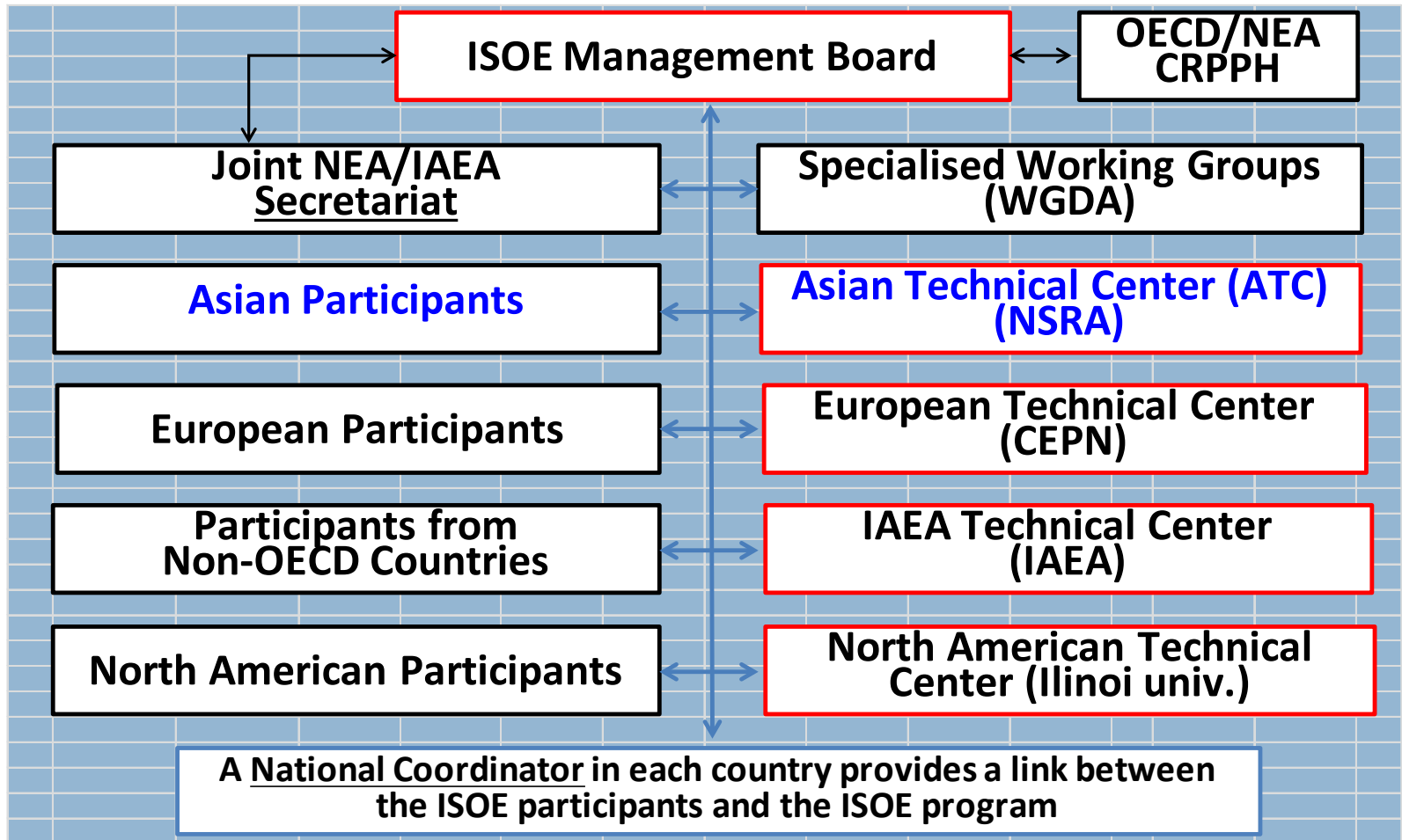
**1. ISOE and the ATC**

**2. ATC Activities**

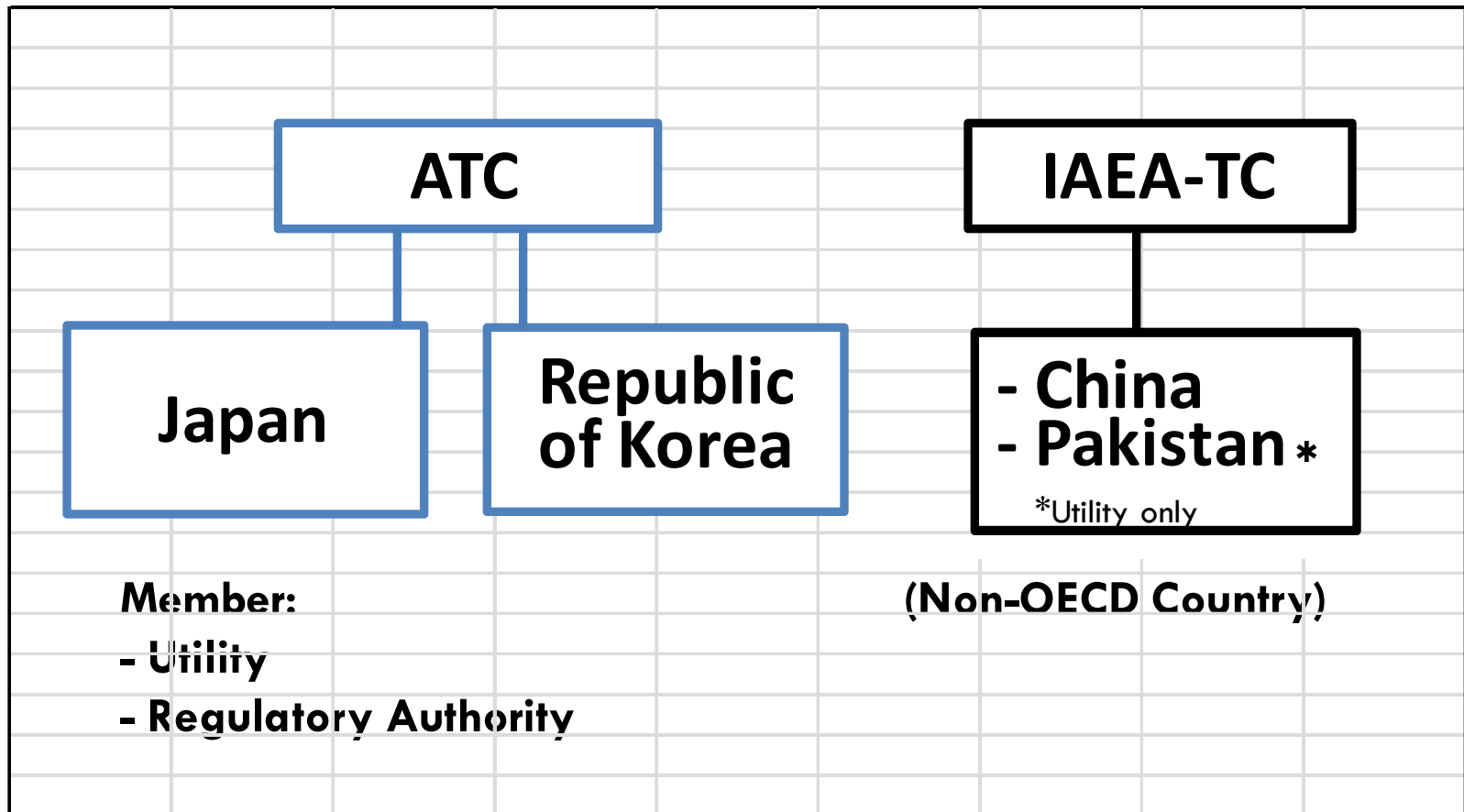
**3. Towards the future on Radiation  
Protection**

# 1. ISOE and the ATC

# ISOE Structure



# ISOE Participants from Asia



# Establishment of the ATC and the History

- 1992 Establishment of the ISOE in Jan.
- 1992 Establishment of the Asian Technical Center in April in NUPEC, Japan
- 1996 **Republic of Korea** joined in the ATC
- 2003 The Center moved to **JNES** from NUPEC due to the politic restructuring in Japan
- 2014 The Center moved to **NSRA** from JNES as introduced at the ISOE Asian ALARA Symposium in Korea

# NSRA Head Office in Tokyo



## 2. ATC Activities

- Management of ISOE Database
- Management of Meetings and Participation
- Information Exchange through ISOE Network



# Management of ISOE Database

- Control the Asian ISOE database
  - ▣ Request to fill out questionnaires to utilities
  - ▣ Validation of the data relevant to annual cumulative dose provided by utilities
  - ▣ Data modification at a utility's request

# Management of Meetings and Participation

- ISOE Management Meeting
  - ▣ 2005 Steering Group Meeting Tokyo, Japan
  - ▣ 2008 Management Board Meeting Kyoto, Japan
- ALARA Symposium
  - ▣ International symposium; 2 times by 2014
  - ▣ Asian symposium; 7 times by 2014
- Working Group / Task Group Meeting

# ISOE ALARA Symposiums

- International symposium (2 times)
  - 2008 Tsuruga, Japan (visit FBR Monju)
  - 2013 Tokyo, Japan (visit Fukushima #1 NPP)
- Asian symposium (7+1 times)
  - 2005 Hamaoka, Japan (visit Hamaoka NPP)
  - 2006 Yuzawa, Japan (visit Kashiwazaki-Kariwa NPP)
  - 2007 Seoul, Korea (visit Uljin NPP)
  - 2009 Aomori, Japan (visit Higashidori NPP)
  - 2010 Gyeongju, Korea (visit Wolsong & Shin-Wolsong NPPs)
  - 2012 Tokyo, Japan (visit Onagawa NPP)
  - 2014 Gyeongju, Korea (visit Shin-Wolsong NPP, LILW Disposal site)
  - **2015 Tokyo, Japan (visit Rokkasyo Fuel Recycle Center)**

# ISOE Asian ALARA Symposium 2012 Tokyo, Japan

- Date: 24-26 Sept. 2012
- Participants: 32 from 4 countries (France, Japan, Republic of Korea, and USA)
- Speakers: 14
- Technical visit: Onagawa NPP
- Main Topics: Radiation safety & safety culture, Activities of exposure reduction
- The best paper awarded: Mr. P.J. Robinson(LANL, USA), Mr.R. Hite(Cook NPP,USA)



# ISOE International ALARA Symposium 2013 Tokyo, Japan

- Date: 27-29 Sept. 2013
- Participants: 50 from 11 countries and 2 International organizations (Brazil, China, France, Germany, Japan, Pakistan, Republic of Korea, Russia, Spain, Sweden, USA, OECD/NEA and IAEA)
- Speakers: 18
- Technical visit: Fukushima #1 NPP
- Main Topics: Lessons learnt from F1 accidents, Decontamination activities
- The best paper awarded: Mr. R.Hite(Cook NPP,USA)

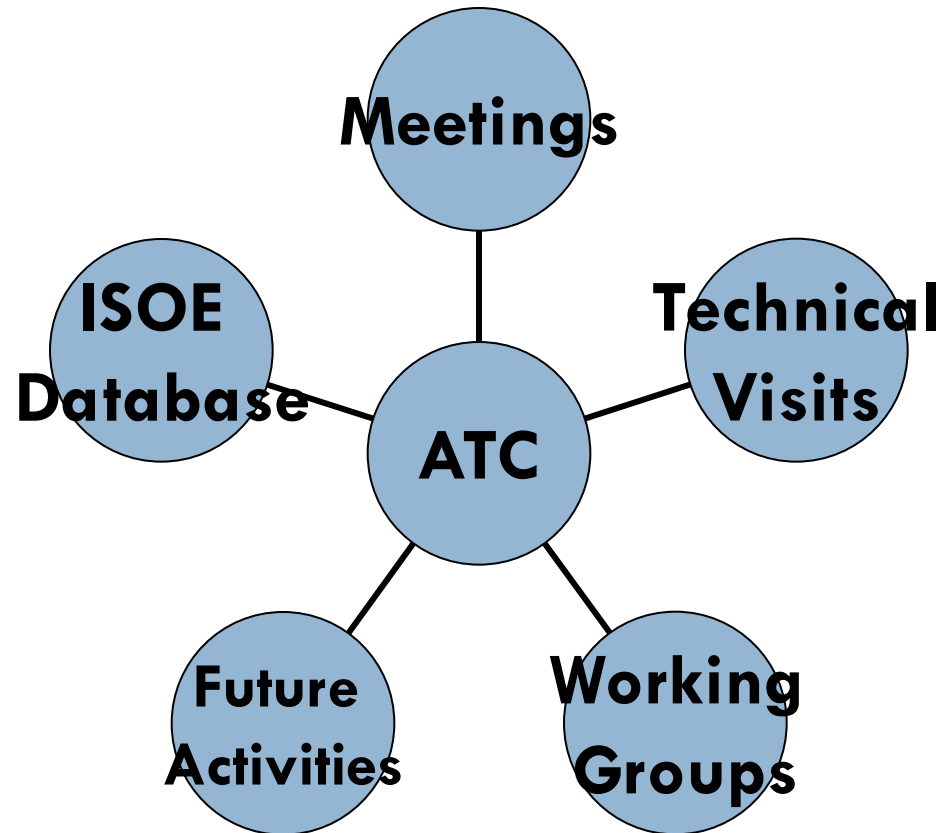


# ISOE Asian ALARA Symposium 2014 Gyeongju, Republic of Korea

- Date: 23-25 Sept. 2014
- Participants: 117 from 3 countries and ISOE secretariat (Japan, Republic of Korea, and USA)
- Speakers: 20
- Technical visit: Shin-Wolsong NPP, LILW Disposal site
- Main Topics: Radiation management in NPP accidents, Activities of exposure reduction
- The best paper awarded:  
Mr. Dong Ki Yun(KHNP, Korea),  
Mr. S.Takahira(TEPCO, Japan)



# ISOE Information Exchange



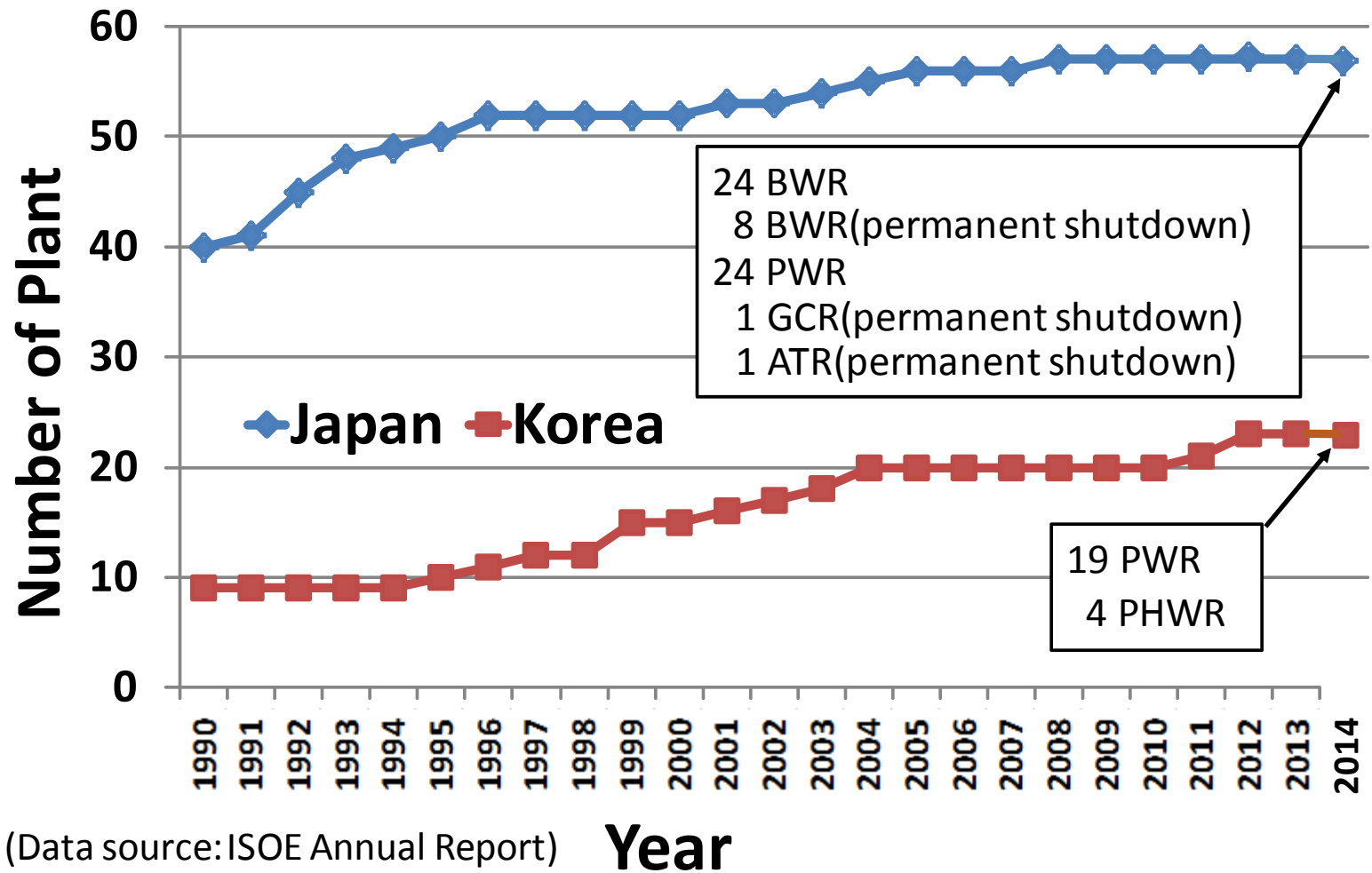
# 3. Towards the Future on Radiation Protection

- Trends of average individual/collective dose
- Towards the future for further dose reduction

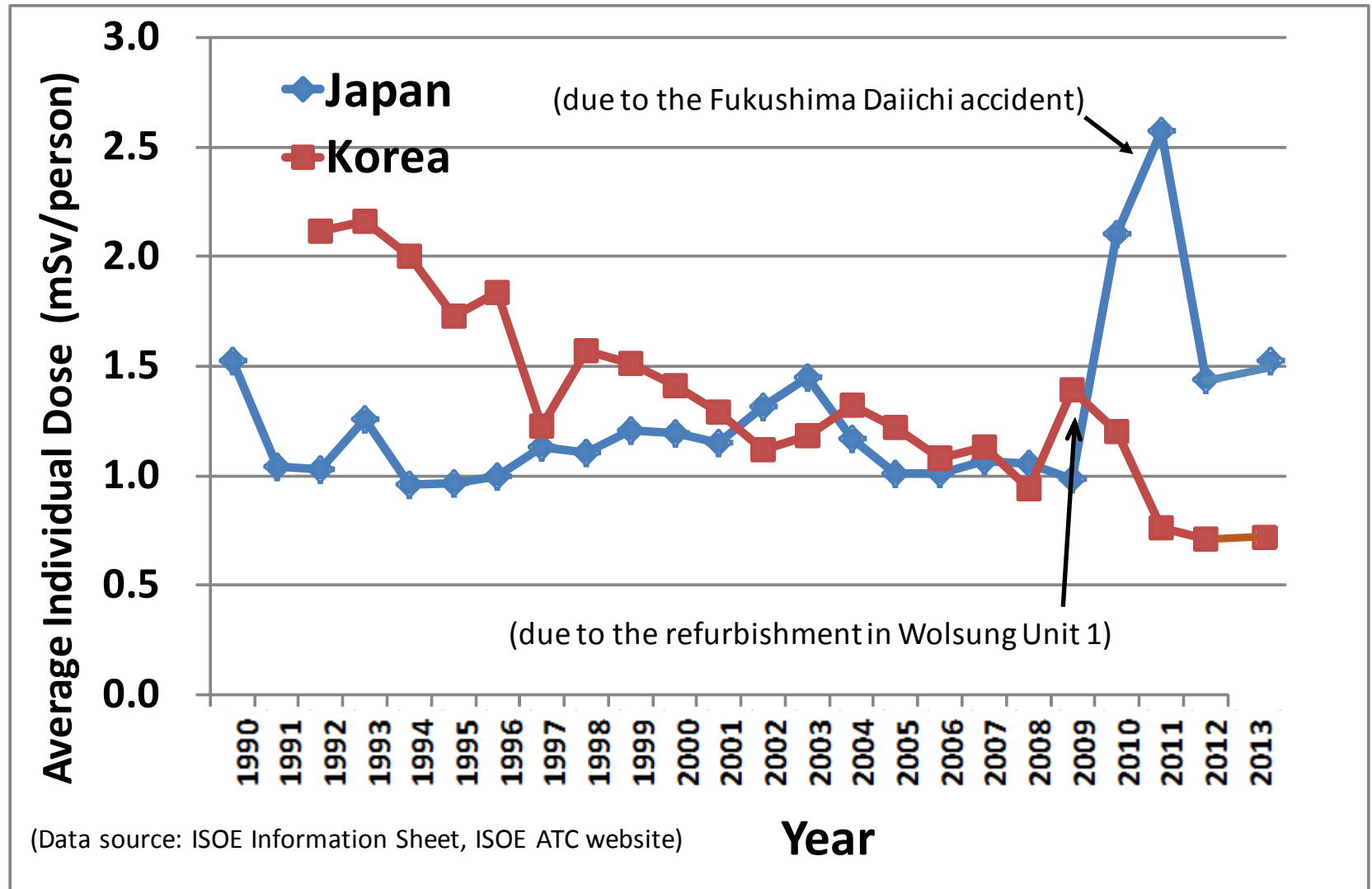


# Trend of Number of Reactors

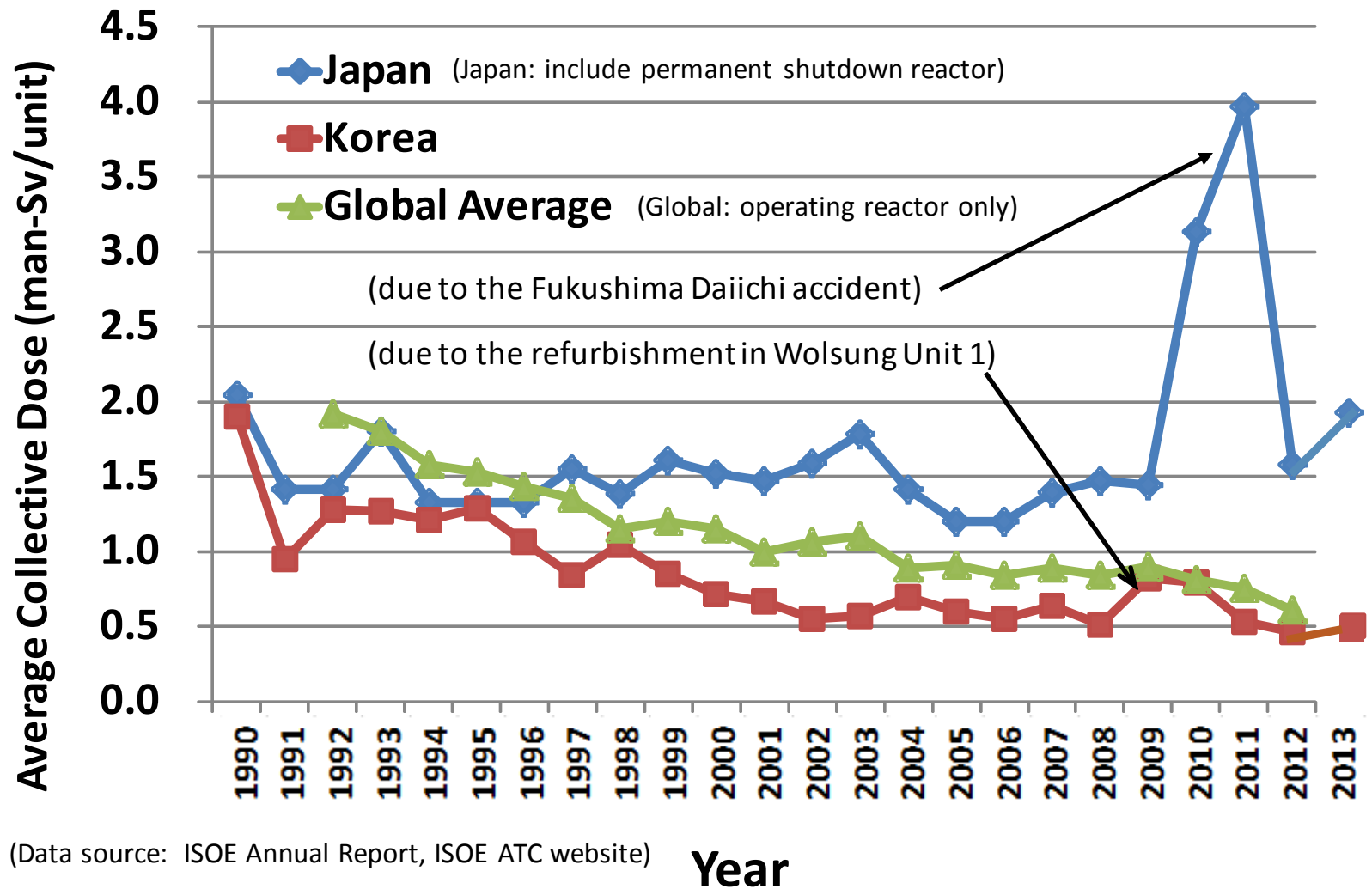
(as of 31 Dec. 2014)



# Trend of Average Individual Dose



# Trend of Average Collective Dose



# Towards the future...

## - For further Dose Reduction -

- Radiation safety and Fire safety
  - ▣ Big contribution of Human beings awareness

Importance of continuous efforts on:

- ▣ Education of radiation protection;
- ▣ Training for emergency;
- ▣ Information exchange among relevant through e.g. ISOE network

These bring large contribution to the radiation safety i.e. further dose reduction but low cost compare to the safety of Structures, Systems and Components.



Thank you for your attention

